

**CULTURAL RESOURCES SURVEY OF THE  
LYNCHEs RIVER ELECTRIC COOPERATIVE  
ELECTRIC SUBSTATION,  
LANCASTER COUNTY, SOUTH CAROLINA**

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## ABSTRACT

This study reports on an intensive cultural resources survey of an approximately 2 acre property located in central Lancaster County, South Carolina. The work, conducted for Mr. Phil Monroe of Lynch River Electric Cooperative, Inc., is meant to assist the client in complying with Section 106 of the National Historic Preservation Act and the regulations codified in 36CFR800.

The tract is to be used by Lynch River Electric Cooperative, Inc. for the installation of an electric substation. The survey area is situated about 6 miles east of the city of Lancaster on Joshua Tree Road off S-123 (Taxahaw Road). The area consists of mixed pines and hardwoods and a small portion of a fallow field.

This survey was conducted to identify and assess archaeological and historical sites which may be in the project area. For this study an area of potential effect (APE) about 0.5 mile around the proposed tract was assumed. The proposed undertaking will require clearing of the tract, followed by construction of the proposed facility. These activities have the potential to affect archaeological and historical sites in the area.

Consultation with the S.C. Department of Archives and History revealed no properties in or near the project area that have been determined eligible for the National Register of Historic Places. However, an inventory of historical and architectural sites was performed in 1986 which identified three structures (Schneider 1986). Site 11.018 is a ca. 1910 house, site 11.019 is a ca. 1920 house, and site 11.020 is a ca. 1915 house. Schneider (1986) recommended these structures not eligible, and the State Historic Preservation Office concurred.

An investigation of the archaeological site files at the S.C. Institute of Archaeology and Anthropology identified no archaeological sites within a 0.5 mile area of potential effect (APE).

The archaeological survey of the tract incorporated shovel testing at 100-foot intervals with transects starting at the eastern portion of the

tract and running west. All shovel test fill was screened through ¼-inch mesh and the shovel tests were backfilled at the completion of the study. A total of 24 shovel tests were excavated along five transects within the project area.

As a result of these investigations no archaeological sites were found. The topography is sloping down toward Bear Creek and there are no distinct ridge tops, so habitation would not have been likely in this area. In addition, all the shovel tests produced wet soils.

A survey of public roads within 0.5 mile of the proposed undertaking was conducted in an effort to identify any architectural sites over 50 years old which also retained their integrity. The area is fairly rural, with one historic structure (11.019) partially viewable from the project area. No other historic structures can be seen from the project area. Both 11.018 and 11.019 are still recommended not eligible and will not be affected by the current project. Structure 11.020 is no longer standing. In addition, no structures were found within the APE which contained enough integrity to be eligible for the National Register of Historic Places.

Finally, it is possible that archaeological remains may be encountered in the project area during clearing activities. Crews should be advised to report any discoveries of concentrations of artifacts (such as bottles, ceramics, or projectile points) or brick rubble to the project engineer, who should in turn report the material to the State Historic Preservation Office or to Chicora Foundation (the process of dealing with late discoveries is discussed in 36CFR800.13(b)(3)). No construction should take place in the vicinity of these late discoveries until they have been examined by an archaeologist and, if necessary, have been processed according to 36CFR800.13(b)(3).

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## INTRODUCTION

This investigation was conducted by Dr. Michael Trinkley of Chicora Foundation, Inc. for Mr. Phil Monroe of Lynches River Electric Cooperative, Inc. The work was conducted to assist the Lynches River Electric Cooperative, Inc. comply with Section 106 of the National Historic Preservation Act and the regulations codified in 36CFR800.

The project site consists of a two acre lot to be used for the placement of a substation in central Lancaster County (Figure 1). The project is situated on Joshua Tree Road (S-1185) off Taxahaw Road (S-123).

The proposed tract, as previously mentioned, is intended to be used as a substation. Landscape alteration, primarily clearing, and construction, including erection of new transformers, and long-term maintenance of the substation, will damage the ground surface and any archaeological resources which may be present in the survey area.

Construction and maintenance of the substation may also have an impact on historic resources in the project area. The project will not directly effect any historic structures (since none are located on the survey parcel), but the completed facility may detract from the visual integrity of historic properties, creating what many consider discordant surroundings. As a result, this architectural survey uses an area of potential effect (APE) about 0.5 mile radius around the proposed survey tract.

This study, however, does **not** consider any future secondary impact of the project, including increased or expanded development of this portion of Lancaster County.

We were requested by Mr. Phil Monroe of Lynches River Electric Cooperative, Inc. to provide a proposal for the survey on November 25, 2002. A proposal was supplied on November 26.

Permission to proceed with the project was given On February 6, 2003.

These investigations incorporated a review of the site files at the South Carolina Institute of Archaeology and Anthropology. As a result of that work, no sites were found in the 0.5 mile APE.

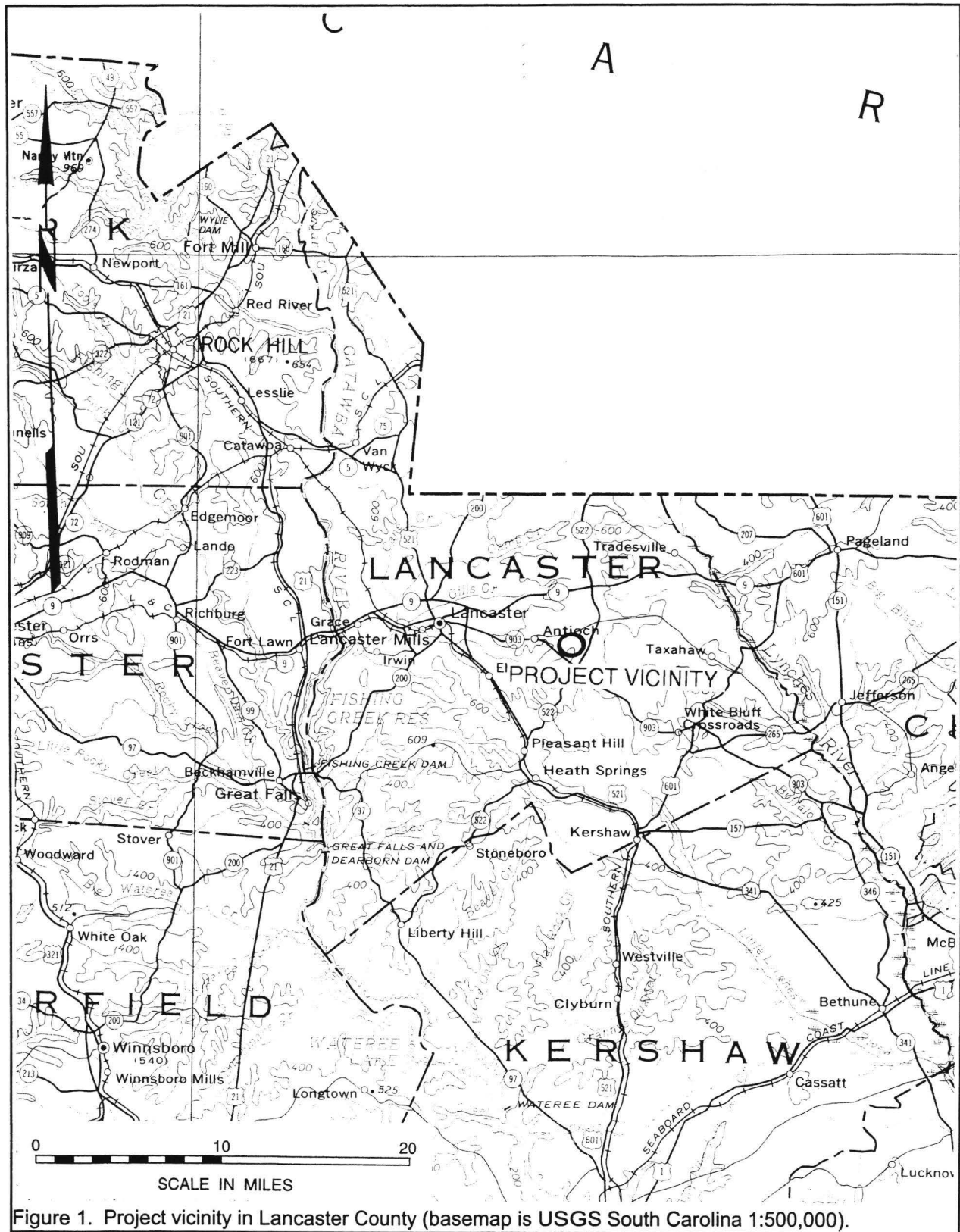
The South Carolina Department of Archives and History GIS was consulted to check for any NRHP buildings, districts, structures, sites, or objects in the study area. No NRHP sites were found within 0.5 mile of the survey and in addition, no additional resources were marked within the APE. A survey of historical and architectural resources, however, was performed in 1986 and identified three structures (Schneider 1986). Structure 11.018 is a ca. 1910 house, 11.019 is a ca. 1920 house, and 11.020 is a ca. 1915 house. Schneider (1986) recommended all three structures not eligible for the National Register. This recommendation was concurred by the State Historic Preservation Office.

Archival and historical research was limited to a review of secondary sources available in the Chicora Foundation files.

The archaeological survey was conducted on February 13, 2003 by Mr. Tom Covington under the direction of Dr. Michael Trinkley and revealed no archaeological sites.

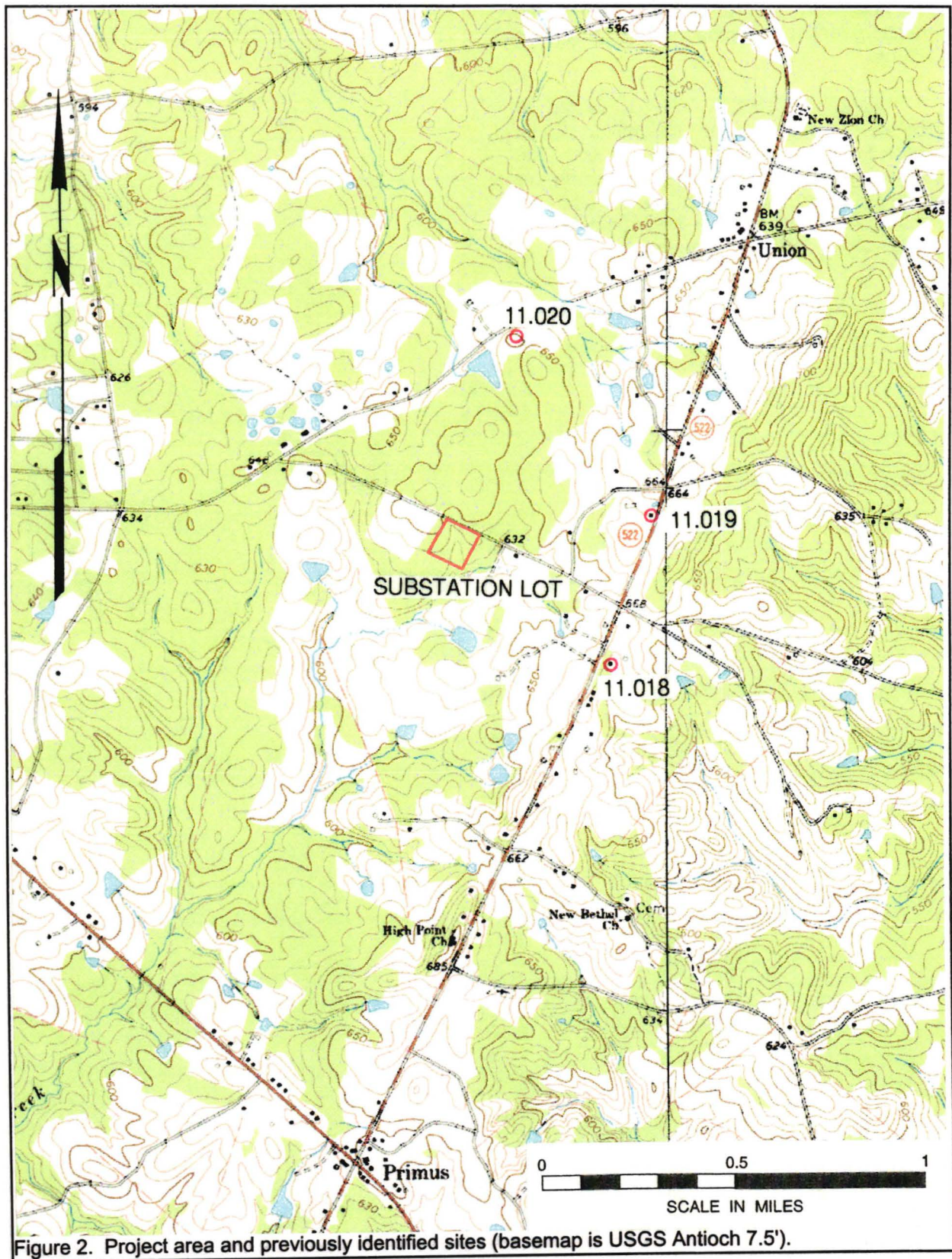
The architectural survey of the APE, designed to identify any structures over 50 years in age which retain their integrity and were potentially eligible for the National Register of Historic Places revealed no such structures. The three identified houses from the 1986 survey were noted, with structure 11.020, the ca. 1915 house, no longer standing. The remaining two houses, 11.018, the ca. 1910 house, and 11.019, the ca. 1920 house, are still recommended not eligible for the National Register. Both structures have had

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## INTRODUCTION



siding added and additional brick filled in the foundation, which has damaged the integrity of the buildings.

Report production was conducted at Chicora's laboratories in Columbia, South Carolina from February 26-March 5, 2003. The only photographic materials associated with this project are color prints, which are not archival. The negatives and prints for these photographs are retained by Chicora Foundation.



## NATURAL ENVIRONMENT

### Physiographic Province

The project area is situated in the eastern portion of Lancaster County. Lancaster County, forming part of South Carolina's north central boundary with North Carolina, is separated from Chesterfield County to the east by Lynches River and from Fairfield, Chester, and York counties to the west by the Catawba River. To the south Lancaster County is bordered by Kershaw County (see Figure 1).

The county is located within two distinct physiographic provinces — the Piedmont Plateau and the Atlantic Coastal Plain. The northern half of the coastal plain is known as the Sand Hills. All but the southeastern corner of the county is found within the Piedmont, separated from the coastal plain by an irregular line, known as the Fall Line, that extends north from the vicinity of Camden in Kershaw County to just west of Kershaw where it loops westward taking in Heath Springs and Pleasant Hill before turning back to the south and running into Kershaw County. There the Fall Line again tends northward, crossing U.S. 601 and extending to Taxhaw in Lancaster County. There it runs south, parallel to the west bank of Lynches River, for about 6 miles before crossing and extending back northward, taking in the town of Jefferson in Chesterfield County.

South of the project area, known as the Carolina Sand Hills, is an area of discontinuous hilly topography characterized by rounded hills with gentle

slopes, moderate relief, and sandy soils. Although technically part of the Coastal Plain geology, the Sand Hills are distinct geographically. Much of the sand was blown into dunes during the Miocene, although weathered clays and very old river deposits are also present. In many cases these sandy deposits lie directly on the crystalline rocks of the Piedmont (Kovacik and Winberry 1987; Murphy 1995).

The project area, therefore, is in close contact with a range of physiographic regions. To the north are the dissected plains consisting of the hills and valleys cut by creeks and rivers as they flow toward the coastal plain. Possibly part of the peneplain, the project is located in what is known as the Piedmont, an area characterized by dendritic stream patterns. It is also characterized by a range of metavolcanic, quartz, and quartzite materials used by Native Americans for stone tools. To the south is the Coastal Plain, where the topography changes dramatically, the hilly upper



Figure 3. View of pines within the survey area.

Coastal Plain giving way to the broad expanses of relatively flat, level ground associated with the lower Coastal Plain. These areas provide sources for Coastal Plain cherts, also used extensively for tool manufacture.

In the survey area the elevations range from about 620 to 650 feet above mean sea level (AMSL). The tract slopes down in the southeast corner toward a portion of Bear Creek.

### **Geology and Soils**

Most of the rocks of the Piedmont are gneiss and schist, with some marble and quartzite (Hasseltan 1974). Some less intensively metamorphosed rocks, such as slate, occur along the eastern part of the province from southern Virginia into Georgia. This area, called the Slate Belt, is characterized by slightly lower ground with wider river valleys. Consequently, the Slate Belt has been favored for reservoir sites (Johnson 1970), as well as prehistoric occupation (see Coe 1964). In Lancaster County many of the Piedmont soils are weathered from argillites rich in silica and alumina. Other soils are formed in saprolite that weathered from crystalline rocks and "Carolina slates". Soils from the river floodplains formed in sediment that washed from the uplands of the Piedmont province.

The Sand Hills, as previously mentioned, are characterized by a plain that has generally gentle slopes and elevations of 350 to 500 feet. The soils, like those in the Coastal Plain, are typically unconsolidated marine deposits of light colored sands and kaoline clays. These soils are generally well drained, although some soil series do exhibit fragipans (Rogers 1973:7).

The project crosses one soil series, Gills silt loam. This soil type has a 6 to 10% slope in the project area which generally forms on ridge side slopes (Rogers 1973:25). These soils are somewhat poorly drained with an A1 horizon of dark grayish brown (10YR4/2) silt loam to a depth of 0.1 foot over a pale yellow (2.5Y7/4) silt loam to 1.0 foot in depth.

Nevertheless, the soil data suggest that the project area has probably gone through cycles of soil erosion and deposition, with erosion

occurring during logging and cultivation, while soils likely built up during periods of forestation. Although classified by Trimble (1974:15) as being part of the Mixed Farming Area with generally low erosive land use, much of the area lost upwards of a foot of soil (Trimble 1974:3).

Just to the south, in the Carolina Sand Hills will result in the loss of nearly 0.15 tons of soil per acre per year and mechanical site preparation, perhaps used in the mid-1950s to convert the agricultural fields back to woods, might have resulted in the loss of over 1 ton of soil per acre per year (U.S. Department of Agriculture 1983:25).

In 1826 Robert Mills provided a very succinct description of the soils, noting that although they varied from "a rich loam to a barren sand," the "lands to the east and south of Cain Creek . . . are mostly stony and gravelly" while to the "north and west of Cain creek, the soil is much more fertile, generally clay and loam" (Mills 1826:596). This division along Cain Creek, between the fertile bottomland soils and the less fertile upland Piedmont and Sand Hills soils, is the exact same division between Trimble's Cotton Plantation Area (with high antebellum erosive land use and a postbellum continuation) and the General Farming Area (with its lower rate of erosion).

For many of the neighboring districts Mills expressed his concern over the treatment lands received. Less than 20 years later Edmund Ruffin had a similar opinion of the sand hills and the wasteful cultivation of the land, yet it seems to have had little impact on the planters he met. He observed that:

The lands through Richland, of middling quality, or rather below. Surface moderately undulating, & sandy mostly. Oak growth more in proportion to the pine than lower. No very good culture or land seen by me (Mathew 1992:261).

In spite of these early warnings, the South Carolina Department of Agriculture, Commerce, and Immigration, as late as 1907, found no reason





Figure 4. View of dense pines and few hardwoods.

to remark on the threat of erosion, noting only that "elevated flats can be brought to a high state of fertility by proper methods of farming" and that the soils are "superior for peanuts, sweet potatoes, sorghum, watermelons and the staples, oats, cotton, corn, and some wheat" (Watson 1907:255). Lancaster County boasted of only one cotton seed oil mill — about on par with the single mills operating in surrounding Chester, Chesterfield, Fairfield, Kershaw, and Sumter counties (Watson 1907:269, 288).

### Climate

Elevation, latitude, and distance from the coast work together to affect the climate of South Carolina, including the Sand Hills. In addition, the more westerly mountains block or moderate many of the cold air masses that flow across the state from west to east. Even the very cold air masses which cross the mountains are warmed somewhat by compression before they descend on the Piedmont and adjacent Sand Hills.

Consequently, the climate of Lancaster County is temperate. The winters are relatively mild and the summers warm and humid. Rainfall

in the amount of about 46 inches is adequate, although less than in some neighboring counties. About 22 inches of rain occur during the growing season, with periods of drought not uncommon during the summer months. As Hilliard illustrates, these droughts tended to be localized and tended to occur several years in a row, increasing the hardship on those attempting to recover from the previous year's crop failure (Hilliard 1984:16). Perhaps the best wide-scale example of this was the drought of 1845, which caused a series of very serious

grain and food shortages throughout the state. Rogers (1974:124) mentions two droughts in the Lancaster area during the first half of the twentieth century.

The average growing season is about 225 days, although early freezes in the fall and late frosts in the spring can reduce this period by as much as 30 or more days (Rogers 1974:125). Consequently, most cotton planting, for example, did not take place until early May, avoiding the possibility that a late frost would damage the young seedlings.

### Floristics

Piedmont forests generally belong to the Oak-Hickory Formation as established by Braun (1950), while she classifies the Sand Hills as part of the Southeast Evergreen Forest Region. Regardless, the potential natural vegetation of the project area is the Oak-Hickory-Pine forest, composed of medium tall to tall forests of broadleaf deciduous and needleleaf evergreen trees (Küchler 1964). The major components of this ecosystem include hickory, shortleaf pine, loblolly pine, white oak, and post oak.



Although John Berry rightly comments that "a walk through the most xeric stages of the fall line sandhills would probably be very boring" dominated by turkey oaks, scrubby post oaks, and broad expanses of open sandy soil, there are other econiches. For example, on the more mesic soils pines and mixed hardwoods can be common, dominated by loblolly pines, cedars, southern red oaks, and even pignut and mockernut hickories. In these mesic woods the understory includes dogwoods, sassafras, blackgum, and persimmon (Berry 1980: 103, 114-115).

The project area exhibits some ecological diversity. The southeastern portion of the tract is affected by Bear Creek which has caused areas of standing water within the survey tract. The northern portion of the tract, although goes up about 20 feet in elevation, remains wet. A pine forest is found in this portion.

Diversity probably made the project area attractive to Native Americans, who saw the site area as providing a range of different environmental zones in close proximity, not a "boring" or sterile sand wasteland (which admittedly is more typical of some sand hill areas). This project tract does not appear to have the diversity to sustain this type of settlement and, with the very wet soils, is unlikely to produce prehistoric artifacts.

## PREHISTORIC AND HISTORIC SYNOPSIS

### Previous Research

In the past, Lancaster had received relatively little archaeological attention. In 1991, Derting and his colleagues list only 34 reports associated with the county, with 29 of these (or 85%) representing highway, transmission line, reservoir, or sewer surveys (Derting et al. 1991). Although dated, this indicates that the attention has been focused on relatively narrow, constrained corridors, with only minor attention devoted to the area's rich prehistoric and protohistoric resources.

### Prehistoric Overview

Overviews for South Carolina's prehistory, while of differing lengths and complexity, are available in virtually every compliance report prepared. There are, in addition, some "classic" sources well worth attention, such as Joffre Coe's *Formative Cultures* (Coe 1964), as well as some new general overviews (such as Sassaman et al. 1990 and Goodyear and Hanson 1989). Also extremely helpful, perhaps even essential, are a handful of recent local synthetic statements, such as that offered by Sassaman and Anderson (1994) for the Middle and Late Archaic and by Anderson et al. (1992) for the Paleoindian and Early Archaic. Only a few of the many sources are included in this study, but they should be adequate to give the reader a "feel" for the area and help establish a context for the various sites identified in the study areas. For those desiring a more general synthesis, perhaps the most readable and well balanced is that offered by Judith Bense (1994), *Archaeology of the Southeastern United States: Paleoindian to World War I*. Figure 5 offers a generalized view of South Carolina's cultural periods.

### **Paleoindian Period**

The Paleoindian Period, most commonly dated from about 12,000 to 10,000 B.P., is evidenced by basally thinned, side-notch projectile

points; fluted, lanceolate projectile points, side scrapers, end scrapers; and drills (Coe 1964; Michie 1977; Williams 1965). Oliver (1981, 1985) has proposed to extend the Paleoindian dating in the North Carolina Piedmont to perhaps as early as 14,000 B.P., incorporating the Hardaway Side-Notched and Palmer Corner-Notched types, usually accepted as Early Archaic, as representatives of the terminal phase. This view, verbally suggested by Coe for a number of years, has considerable technological appeal.<sup>1</sup> Oliver suggests a continuity from the Hardaway Blade through the Hardaway-Dalton to the Hardaway Side-Notched, eventually to the Palmer Side-Notched (Oliver 1985:199-200). While convincingly argued, this approach is not universally accepted.

The Paleoindian occupation, while widespread, does not appear to have been intensive. Artifacts are most frequently found along major river drainages, which Michie interprets to support the concept of an economy "oriented toward the exploitation of now extinct mega-fauna" (Michie 1977:124). Survey data for Paleoindian tools, most notably fluted points, is somewhat dated, but has been summarized by Charles and Michie 1992). They reveal a widespread distribution across the state (see also Anderson 1992b:Figure 5.1) with at least several concentrations relating to intensity of collector activity. What is clear is that points are found fairly far removed from the origin of the raw material. Charles and Michie suggest that this may "imply a

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<sup>1</sup> While never discussed by Coe at length, he did observe that many of the Hardaway points, especially from the lowest contexts, had facial fluting or thinning which, "in cases where the side-notches or basal portions were missing, . . . could be mistaken for fluted points of the Paleo-Indian period" (Coe 1964:64). While not an especially strong statement, it does reveal the formation of the concept. Further insight is offered by Ward's (1983:63) all too brief comments on the more recent investigations at the Hardaway site (see also Daniel 1992).

geographically extensive settlement system" (Charles and Michie 1992:247).

Although data are sparse, one of the more attractive theories that explains the widespread distribution of Paleoindian sites is the model tracking the replacement of a high technology forager (or HTF) adaptation by a "progressively more generalized band/microband foraging adaption" accompanied by increasingly distinct regional traditions (perhaps reflecting movement either along or perhaps even between river drainages) (Anderson 1992b:46).

Distinctive projectile points include lanceolates such as Clovis, Dalton, perhaps the Hardaway, and Big Sandy (Coe 1964; Phelps 1983; Oliver 1985). A temporal sequence of Paleoindian projectile points was proposed by Williams (1965:24-51), but according to Phelps (1983:18) there is little stratigraphic or chronometric evidence for it. While this is certainly true, a number of authors, such as Anderson (1992a) and Oliver (1985) have assembled impressive data sets. We are inclined to believe that while often not conclusively proven by stratigraphic excavations (and such proof may be an unreasonable expectation), there is a large body of circumstantial evidence. The weight of this evidence tends to provide considerable support.

Unfortunately, relatively little is known about Paleoindian subsistence strategies, settlement systems, or social organization (see, however, Anderson 1992b for an excellent overview and synthesis of what is known). Generally, archaeologists agree that the Paleoindian groups were at a band level of society, were nomadic, and were both hunters and foragers. While population density, based on isolated finds, is thought to have been low, Walthall suggests that toward the end of the period, "there was an increase in population density and in territoriality and that a number of new resource areas were beginning to be exploited" (Walthall 1980:30).

### Archaic Period

The Archaic Period, which dates from

10,000 to 3,000 B.P.<sup>2</sup>, does not form a sharp break with the Paleoindian Period, but is a slow transition characterized by a modern climate and an increase in the diversity of material culture. Associated with this is a reliance on a broad spectrum of small mammals, although the white tailed deer was likely the most commonly exploited animal. Archaic period assemblages, exemplified by corner-notched and broad-stemmed projectile points, are fairly common, perhaps because the swamps and drainages offered especially attractive ecotones.

Many researchers have reported data suggestive of a noticeable population increase from the Paleoindian into the Early Archaic. This has tentatively been associated with a greater emphasis on foraging. Diagnostic Early Archaic artifacts include the Kirk Corner Notched point. As previously discussed, Palmer points may be included with either the Paleoindian or Archaic period, depending on theoretical perspective. As the climate became hotter and drier than the previous Paleoindian period, resulting in

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<sup>2</sup> The terminal point for the Archaic is no clearer than that for the Paleoindian and many researchers suggest a terminal date of 4,000 B.P. rather than 3,000 B.P. There is also the question of whether ceramics, such as the fiber-tempered Stallings ware, will be included as Archaic, or will be included with the Woodland. Oliver, for example, argues that the inclusion of ceramics with Late Archaic attributes "complicates and confuses classification and interpretation needlessly" (Oliver 1981:20). He comments that according to the original definition of the Archaic, it "represents a preceramic horizon" and that "the presence of ceramics provides a convenient marker for separation of the Archaic and Woodland periods (Oliver 1981:21). Others would counter that such an approach ignores cultural continuity and forces an artificial, and perhaps unrealistic, separation. Sassaman and Anderson (1994:38-44), for example, include Stallings and Thom's Creek wares in their discussion of "Late Archaic Pottery." While this issue has been of considerable importance along the Carolina and Georgia coasts, it has never affected the Piedmont, which seems to have embraced pottery far later, well into the conventional Woodland period. The importance of the issue in the Sandhills, unfortunately, is not well known.

# PREHISTORIC AND HISTORIC SYNOPSIS

			Regional Phases		
Dates	Period	Sub-Period	COASTAL	MIDDLE SAVANNAH VALLEY	CENTRAL CAROLINA PIEDMONT
1715	HIST.	EARLY	Altamaha		Caraway
1650	MISS.	LATE	Irene / Pee Dee	Rembert	Dan River
1100		EARLY	Savannah	Hollywood	
		LATE	St. Catherine's / Swift Creek	Lawton	
800	WOODLAND			Savannah	
A.D.			Wilmington	Sand Tempered Wilmington?	Uwharrie
B.C.		MIDDLE	Deptford	Deptford	Yadkin
300					
		EARLY	Refuge		Badin
1000	ARCHAIC		Thom's Creek Stallings		
2000		LATE	Savannah River Halifax		
3000					
		MIDDLE	Guilford Morrow Mountain Stanly		
5000					
8000		EARLY	Kirk Palmer		
10,000	PALEOINDIAN		Hardaway		
			Hardaway - Dalton		
12,000			Cumberland	Clovis	Simpson

Figure 5. Generalized cultural sequence for South Carolina.

vegetational changes, it also affected settlement patterning as evidenced by a long-term Kirk phase midden deposit at the Hardaway site (Coe 1964:60). This is believed to have been the result of a change in subsistence strategies.

Settlements during the Early Archaic suggest the presence of a few very large, and apparently intensively occupied, sites which can

best be considered base camps. Hardaway might be one such site. In addition, there were numerous small sites which produce only a few artifacts — these are the "network of tracks" mentioned by Ward (1983:65). The base camps produce a wide range of artifact types and raw materials which has suggested to many researchers long-term, perhaps seasonal or multi-seasonal, occupation. In contrast, the smaller

sites are thought of as special purpose or foraging sites (see Ward 1983:67).

Middle Archaic (8,000 to 6,000 B.P.) diagnostic artifacts include Morrow Mountain, Guilford, Stanly and Halifax projectile points. Much of our best information on the Middle Archaic comes from sites investigated west of the Appalachian Mountains, such as the work by Jeff Chapman and his students in the Little Tennessee River Valley (for a general overview see Chapman 1977, 1985a, 1985b). There is good evidence that Middle Archaic lithic technologies changed dramatically. End scrapers, at times associated with Paleoindian traditions, are discontinued, raw materials tend to reflect the greater use of locally available materials, and mortars are initially introduced. Associated with these technological changes there seem to also be some significant cultural modifications. Prepared burials begin to more commonly occur and storage pits are identified. The work at Middle Archaic river valley sites, with their evidence of a diverse floral and faunal subsistence base, seems to stand in stark contrast to Caldwell's Middle Archaic "Old Quartz Industry" of Georgia and the Carolinas, where axes, choppers, and ground and polished stone tools are very rare.

Among the most common of all Middle Woodland artifacts is the Morrow Mountain Stemmed projectile point. Originally divided into two varieties by Coe (1964:37,43) based primarily on the size of the blade and the stem. Morrow Mountain I points had relatively small triangular blades with short, pointed stems. Morrow Mountain II points had longer, narrower blades with long, tapered stems. Coe suggested a temporal sequence from Morrow Mountain I to Morrow Mountain II. While this has been rejected by some archaeologists, who suggest that the differences are entirely related to the life-stage of the point, the debate is far from settled and Coe has considerable support for his scenario.

The Morrow Mountain point is also important in our discussions since it represents a departure from the Carolina Stemmed Tradition. Coe has suggested that the groups responsible for the Middle Archaic Morrow Mountain (and the later Guilford points) were intrusive ("without any background" in Coe's words) into the North

Carolina Piedmont, from the west, and were contemporaneous with the groups producing Stanly points (Coe 1964:122-123; see also Phelps 1983:23). Phelps, building on Coe, refers to the Morrow Mountain and Guilford as the "Western Intrusive horizon." Sassaman (1995) has recently proposed a scenario for the Morrow Mountain groups which would support this west-to-east time-transgressive process. Abbott and his colleagues, perhaps unaware of Sassaman's data, dismiss the concept, commenting that the sheer distribution and number of these points "makes this position wholly untenable" (Abbott et al. 1995:9).

The controversy surrounding Morrow Mountain also includes its posited date range. Coe (1964:123) did not expect the Morrow Mountain to predate 6500 B.P., yet more recent research in Tennessee reveals a date range of about 7500 to 6500 B.P. Sassaman and Anderson (1994:24) observe that the South Carolina dates have never matched the antiquity of their more western counterparts and suggest continuation to perhaps as late as 5500 B.P. In fact they suggest that even later dates are possible since it can often be difficult to separate Morrow Mountain and Guilford points.

A recently defined point is the MALA. The term is an acronym standing for Middle Archaic and Late Archaic, the strata in which these points were first encountered at the Pen Point site (38BR383) in Barnwell County, South Carolina (Sassaman 1985). These stemmed and notched lanceolate points were originally found in a context suggesting a single-episode event with variation not based on temporal variation. The original discussion was explicitly worded to avoid application of a typology, although as Sassaman and Anderson (1994:27) note, the "type" has spread into more common usage. There are possible connections with both the Halifax points of North Carolina and the Benton points of the middle Tennessee River valley, while the "heartland" for the MALA appears confined to the lower middle Coastal Plain of South Carolina.

The available information has resulted in a variety of competing settlement models. Some argue for increased sedentism and a reduction of mobility (see Goodyear et al. 1979:111). Ward



argues that the most appropriate model is one which includes relatively stable and sedentary hunters and gatherers "primarily adapted to the varied and rich resource base offered by the major alluvial valleys" (Ward 1983:69). While he recognizes the presence of "inter-riverine" sites, he discounts explanations which focus on seasonal rounds, suggesting "alternative explanations . . . [including] a wide range of adaptive responses." Most importantly, he notes that:

the seasonal transhumance model and the sedentary model are opposite ends of a continuum, and in all likelihood variations on these two themes probably existed in different regions at different times throughout the Archaic period (Ward 1983:69).

Others suggest increased mobility during the Archaic (see Cable 1982). Sassaman (1983) has suggested that the Morrow Mountain phase people had a great deal of residential mobility, based on the variety of environmental zones they are found in and the lack of site diversity. The high level of mobility, coupled with the rapid replacement of these points, may help explain the seemingly large numbers of sites with Middle Archaic assemblages. Curiously, the later Guilford phase sites are not as widely distributed, perhaps suggesting that only certain micro-environments were used (cf. Ward [1983:68-69] who would likely reject the notion that substantially different environmental zones are, in fact, represented).

Recently Abbott et al. argue for a combination of these models, noting that the almost certain increase in population levels probably resulted in a contraction of local territories. With small territories there would have been significantly greater pressure to successfully exploit the limited resources by more frequent movement of camps. They discount the idea that these territories could have been exploited from a single base camp without horticultural technology. Abbott and his colleagues conclude, "increased residential mobility under such conditions may in fact represent a common stage in the

development of sedentism" (Abbott et al. 1995:9).

From excavations at a Sandhills site in Chesterfield County, South Carolina, Gunn and his colleague (Gunn and Wilson 1993) offer an alternative model for Middle Archaic settlement. He accepts that the uplands were desiccated from global warming, but rather than limiting occupation, this environmental change made the area more attractive for residential base camps. Gunn and Wilson suggest that the open, or fringe, habitat of the upland margins would have been attractive to a wide variety of plant and animal species.

The Late Archaic, usually dated from 6,000 to 3,000 or 4,000 B.P., is characterized by the appearance of large, square stemmed Savannah River projectile points (Coe 1964). These people continued to intensively exploit the uplands much like earlier Archaic groups with, the bulk of our data for this period coming from the Uwharrie region in North Carolina.

One of the more debated issues of the Late Archaic is the typology of the Savannah River Stemmed and its various diminutive forms. Oliver, refining Coe's (1964) original Savannah River Stemmed type and a small variant from Gaston (South 1959:153-157), developed a complete sequence of stemmed points that decrease uniformly in size through time (Oliver 1981, 1985). Specifically, he sees the progression from Savannah River Stemmed to Small Savannah River Stemmed to Gypsy Stemmed to Swannanoa from about 5000 B.P. to about 1,500 B.P. He also notes that the latter two forms are associated with Woodland pottery.

This reconstruction is still debated with a number of archaeologists expressing concern with what they see as typological overlap and ambiguity. They point to a dearth of radiocarbon dates and good excavation contexts at the same time they express concern with the application of this typology outside the North Carolina Piedmont (see, for a synopsis, Sassaman and Anderson 1990:158-162, 1994:35).

In addition to the presence of Savannah River points, the Late Archaic also witnessed the introduction of steatite vessels (see Coe

1964:112-113; Sassaman 1993), polished and pecked stone artifacts, and grinding stones. Some also include the introduction of fiber-tempered pottery about 4000 B.P. in the Late Archaic (for a discussion see Sassaman and Anderson 1994:38-44). This innovation is of special importance along the Georgia and South Carolina coasts, but seems to have had only minimal impact in the uplands of South or North Carolina.

There is evidence that during the Late Archaic the climate began to approximate modern climatic conditions. Rainfall increased resulting in a more lush vegetation pattern. The pollen record indicates an increase in pine which reduced the oak-hickory nut masts which previously were so widespread. This change probably affected settlement patterning since nut masts were now more isolated and concentrated. From research in the Savannah River valley near Aiken, South Carolina, Sassaman has found considerable diversity in Late Archaic site types with sites occurring in virtually every upland environmental zone. He suggests that this more complex settlement pattern evolved from an increasingly complex socio-economic system. While it is unlikely that this model can be simply transferred to the Sandhills of South Carolina without an extensive review of site data and micro-environmental data, it does demonstrate one approach to understanding the transition from Archaic to Woodland.

### Woodland Period

As previously discussed, there are those who see the Woodland beginning with the introduction of pottery. Under this scenario the Early Woodland may begin as early as 4,500 B.P. and continued to about 2,300 B.P. Diagnostics would include the small variety of the Late Archaic Savannah River Stemmed point (Oliver 1985) and pottery of the Stallings and Thoms Creek series. These sand tempered Thoms Creek wares are decorated using punctations, jab-and-drag, and incised designs (Trinkley 1976). Also potentially included are Refuge wares, also characterized by sandy paste, but often having only a plain or dentate-stamped surface (Waring 1968). Others would have the Woodland beginning about 3,000 B.P. and perhaps as late as 2,500 B.P. with the introduction of pottery

which is cord-marked or fabric-impressed and suggestive of influences from northern cultures.

There remains, in South Carolina, considerable ambiguity regarding the pottery series found in the Sandhills and their association with coastal plain and piedmont types. The earliest pottery found at many sites may be called either Deptford or Yadkin, depending on the research or their inclination at any given moment.

The Deptford phase, which dates from 3050 to 1350 B.P., is best characterized by fine to coarse sandy paste pottery with a check stamped surface treatment. The Deptford settlement pattern involves both coastal and inland sites.

Inland sites such as 38AK228-W, 38LX5, 38RD60, and 38BM40 indicate the presence of an extensive Deptford occupation on the Fall Line and the Inner Coastal Plain/Sand Hills, although sandy, acidic soils preclude statements on the subsistence base (Anderson 1979; Ryan 1972; Trinkley 1980). These interior or upland Deptford sites, however, are strongly associated with the swamp terrace edge, and this environment is productive not only in nut masts, but also in large mammals such as deer. Perhaps the best data concerning Deptford "base camps" comes from the Lewis-West site (38AK228-W), where evidence of abundant food remains, storage pit features, elaborate material culture, mortuary behavior, and craft specialization has been reported (Sassaman et al. 1990:96-98; see also Sassaman 1993 for similar data recovered from 38AK157).

Further to the north and west, in the Piedmont, the Early Woodland is marked by a pottery type defined by Coe (1964:27-29) as Badin.<sup>3</sup> This pottery is identified as having very fine sand in the paste with an occasional pebble. Coe identified cord-marked, fabric-marked, net-impressed, and plain surface finishes. Beyond this

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<sup>3</sup> The ceramics suggest clear regional differences during the Woodland which seem to only be magnified during the later phases. Ward (1983:71), for example, notes that there "marked distinctions" between the pottery from the Buggs Island and Gaston Reservoirs and that from the south-central Piedmont.

pottery little is known about the makers of the Badin wares and relatively few of these sherds are reported from South Carolina sites.

Somewhat more information is available for the Middle Woodland, typically given the range of about 2,300 B.P. to 1,200 B.P. In the Piedmont and even into the Sand Hills, the dominant Middle Woodland ceramic type is typically identified as the Yadkin series. Characterized by a crushed quartz temper the pottery includes surface treatments of cord-marked, fabric-marked, and a very few linear check-stamped sherds (Coe 1964:30-32). It is regrettable that several of the seemingly "best" Yadkin sites, such as the Trestle site (31An19) explored by Peter Cooper (Ward 1983:72-73), have never been published.

Yadkin ceramics are associated with medium-sized triangular points, although Oliver (1981) suggests that a continuation of the Piedmont Stemmed Tradition to at least 1650 B.P. coexisted with this Triangular Tradition. The Yadkin in South Carolina has been best explored by research at 38SU83 in Sumter County (Blanton et al. 1986) and at 38FL249 in Florence County (Trinkley et al. 1993)

In some respects the Late Woodland (1,200 B.P. to 400 B.P.) may be characterized as a continuation of previous Middle Woodland cultural assemblages. While outside the Carolinas there were major cultural changes, such as the continued development and elaboration of agriculture, the Carolina groups settled into a lifeway not appreciably different from that observed for the previous 500-700 years. From the vantage point of the Middle Savannah Valley Sassaman and his colleagues note that, "the Late Woodland is difficult to delineate typologically from its antecedent or from the subsequent Mississippian period" (Sassaman et al. 1990:14). This situation would remain unchanged until the development of the South Appalachian Mississippian complex (see Ferguson 1971).

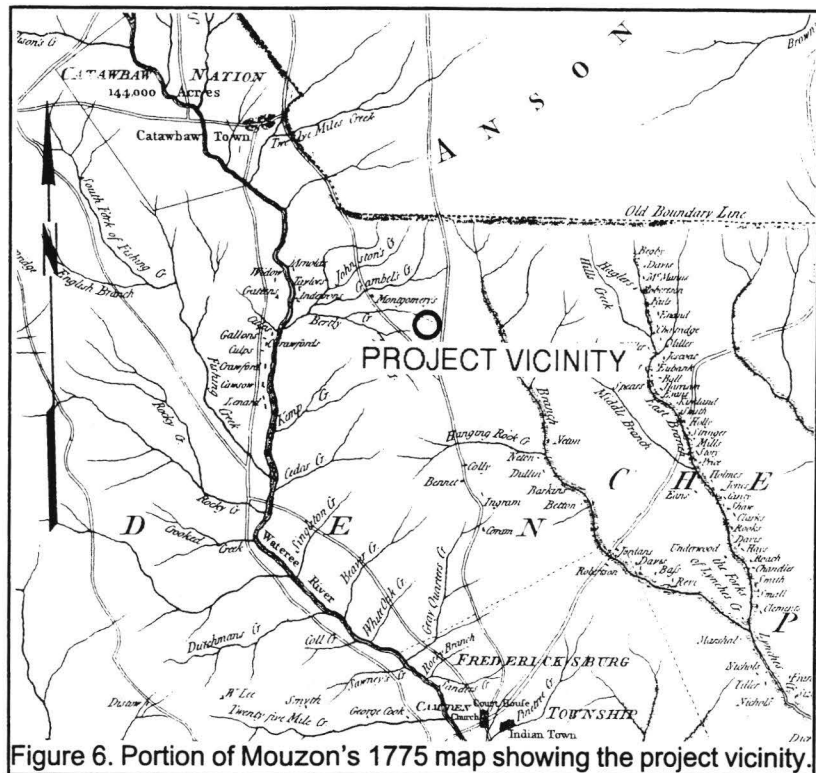


Figure 6. Portion of Mouzon's 1775 map showing the project vicinity.

### Historic Overview

Like many South Carolina counties, Lancaster lacks anything that might be called a thorough history. Most of the available document focus on genealogical research associated with various families or cemeteries and the *Historic Site Survey, Lancaster County* prepared by the Catawba Regional Planning Council in 1976 offers only a brief introduction to the history of the region.

Mills (1826:595) notes that the earliest settlement in Lancaster was by immigrants from Pennsylvania and Virginia about 1745 at a place called Waxhaws, near the Catawba settlements. While sheltered by the Catawba, settlement to the west, toward the Cherokee lands was slow and the area was not intensively settled until after 1761 — after the series of three "wars" waged by South Carolina on the Cherokee (see Hatley 1993). Although the area was largely claimed by the Catawba, this created little concern and Mills noted that the Waxhaw settlers became "rid of their powerful and dangerous neighbors" through



a smallpox epidemic about 1750 (Mills 1866:595).

Mouzon's 1755 *An Accurate Map of North and South Carolina* (Figure 6) shows that settlements are closely associated with what was at that time called the East Branch of Lynch Creek. Although little research has been conducted, it seems likely that the nearby Miller and Mires settlements would have been on the uplands overlooking broad alluvial floodplains suitable for cultivation. It is unlikely that any of these settlements were in the project area.

Like much of the upcountry, the American Revolution was characterized a bloody series of partisan skirmishes in Lancaster. On May 29, 1780 the Battle of the Waxhaws, also known as Buford's Massacre, occurred near the City of Lancaster. A regiment of Virginians, under Colonel Abraham Buford, had been on their way to reinforce patriot forces at Charleston when they heard that the city had fallen and turned back. They were intercepted by Colonel Banastre Tarleton, whose troops slaughtered the Americans as they attempted to surrender. This exceptional cruelty ended the passiveness of many backcountry settlers and began an aggressive backcountry campaign on both sides. Additional battles were fought at Hanging Rock (on July 30, 1780 and August 6, 1780) where the Americans successfully captured British supplies and at Waxhaw Church (on April 10, 1781).

After the Revolution, settlement in the area grew slowly, primarily as small communities were established along both overland trails and along the navigable rivers. Originally part of the Camden District, Lancaster was created in 1785, encompassing what are today Lancaster and Kershaw counties. Kershaw was split off only six years later, in 1791.

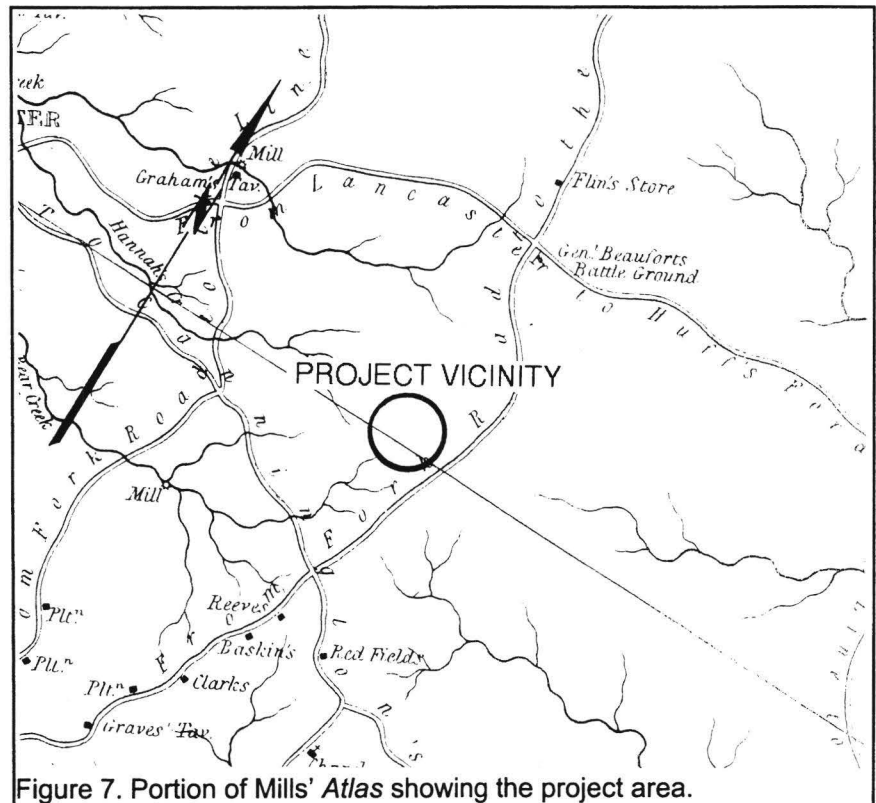


Figure 7. Portion of Mills' Atlas showing the project area.

By the 1820s Lancaster's main town, Lancasterville, boasted 30 buildings and about 260 residents. Among the more impressive buildings were the court house, a jail (both built in 1823), and what Mills described as a "handsome brick academy" (Mills 1826:597). County-wide there were 5848 whites and 4473 African American slaves in 1820 — clear evidence of the importance of cotton, especially along the Catawba River. Cotton, of course, was greatly promoted in the South Carolina piedmont by the invention of the cotton gin in 1790.

Mills' *Lancaster District* shows that the Miller family continued to hold land on the Lynch River. While settlements are still strongly associated with the navigable waterways, there appear to be more farms along the various roads connecting major towns such as Lancaster and Camden. Still, there are no settlements shown for the project area (Figure 7).

While the history focuses on cotton, there was another side of equal interest:

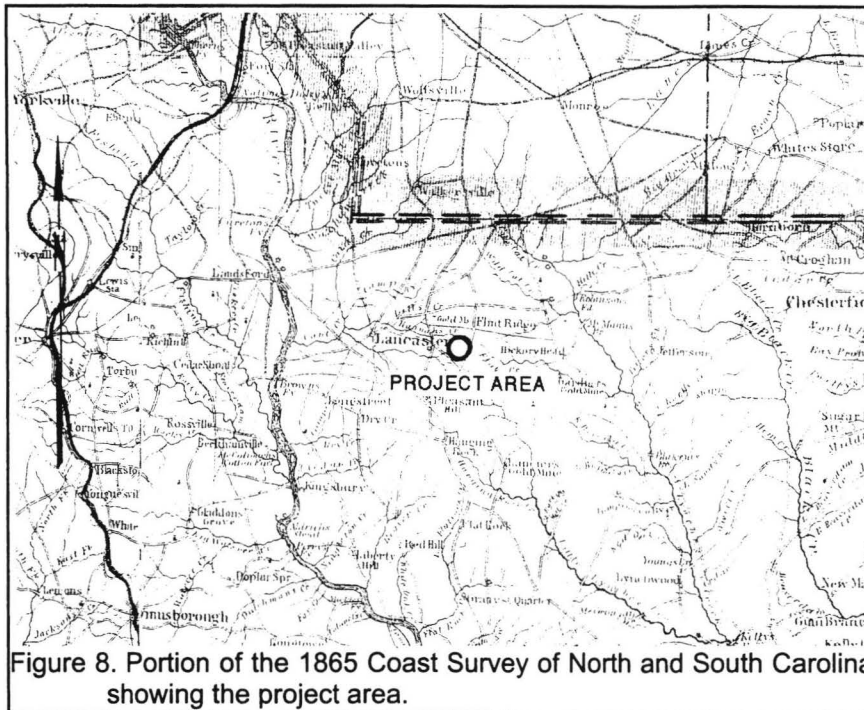


Figure 8. Portion of the 1865 Coast Survey of North and South Carolina showing the project area.

Lancaster's history has been tinged with many religious vagaries, including legal recognition of witchcraft, and the Waxhaw Revival. Early in the nineteenth century a poor girl of Lancaster testified that Barbara Powers had converted her into a horse and had ridden her so incessantly that her health had suffered. The case was thrown out of court. At about the same time the Waxhaw Revival, offshoot of the Nationwide Great Revival, threw many of the county's staid Presbyterians into trances and ecstatic shouting (Writers' Program, Work Projects Administration 1941:310).

By 1850 the white population had held steady at 5,857 while the African American slave population had increased to 5,014 (DeBow 1854:302). It ranked 18th in cotton production, with 8,661 bales. This was far less than produced by neighboring York, Chester, Fairfield, or even Kershaw, but surpassed the production of Chesterfield County to the east, again

documenting Lancaster's division between profitable upland cotton farms and the subsistence farms of the sand region. When the agricultural statistics are examined, Lancaster proves to be a leader in none of the various categories.

The 1865 Coast Survey Map of North and South Carolina primarily reveals the increase in mills and gold mines — reflecting the Carolina gold boom of the early to mid-nineteenth century (Figure 8).

Lancaster was largely quiet during the Civil War until Sherman's troops cut across the county just south of the project area on March 1, 1865 (*Atlas to Accompany the*

*Official Records of the Union and Confederate Armies*, Plate 70, numbers 5 and 6). This undoubtedly caused considerable terror in the local community, as well as considerable loss of property.

In the aftermath of the Civil War, Lancaster County made efforts to diversify into textiles, but was never as successful as its neighbor, Chester County. In fact, by 1907 there was only one mill in the County — the Lancaster Cotton Mills, operated by LeRoy Springs — which had been formed in 1895. While not abundant, the Lancaster operation was among the larger concerns in South Carolina, tied for fifth place for capital stock value and seventh in cotton consumed.

Nevertheless, farming continued to dominate the local economy. Although nearly 50,000 acres were planted in cotton, it was not the county's primary crop, ranking in bottom third of producers. In general, the county appears to be diversified, with farms producing orchard crops, corn, wheat, and oats (Watson 1907:576).

Lancaster County is at the edge of what has traditionally been called the Black Belt — the

area of large plantations that formed the nucleus of tenancy. Heavily dominated by African Americans, this region was hardest hit by the effects of tenancy, both before and after the Great Depression (Goldenweiser and Truesdell 1924; Woofter 1936:3). Just west, however, was the Upper Piedmont, where plantations were "few, scattered, and small" (Woofter 1936:3) and tenancy was somewhat ameliorated.

The different history of the two areas is reflected by the average size of plantations in the Upper Piedmont and Black Belt — 211 acres compared to 275 acres. There was also a clear difference in owner incomes. In the Upper Piedmont the average net income for the owner was \$1,710, compared to \$1,462 for Black Belt owners.

Tenancy was also heavier in the Black Belt, accounting for 73% of the farmers, compared to only 63% in the Upper Piedmont. This, however, did not translate directly into income levels for tenants. In the Upper Piedmont croppers or sharecroppers had a net yearly income of \$104, while share tenants' income was \$170.<sup>4</sup> In the Black Belt, croppers did better, earning \$127 per family, while the sharecroppers did appreciably worse, earning only \$106 per year (Woofter 1936).

## The 1939 General Highway and

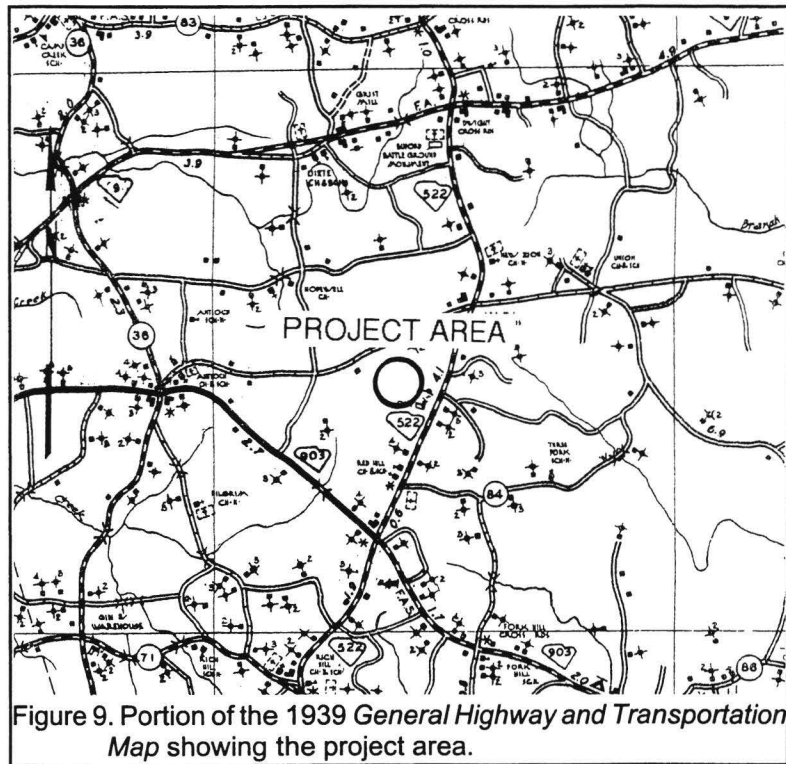


Figure 9. Portion of the 1939 *General Highway and Transportation Map* showing the project area.

*Transportation Map* for Lancaster (Figure 9) reveals no structures in the survey area. In fact, the road on which the survey area is situated, had yet to have been built.

As South Carolina gradually recovered from the depression of the 1930s (spurred on by World War II), Lancaster turned to industry. Much of the agricultural land was allowed to grow up in timber. Seven piedmont counties, including Lancaster, combined account for nearly 43% of the state's factory workers, although they hold only 30% of its population (Kovacik and Winberry 1987:193).

<sup>4</sup> Cropper or share-croppers furnished their labor and half of the fertilizer necessary. The landlord furnished the land, a house, fuel, tools, working stock, seed and feed, and the other half of the fertilizer. The crop, minus advances, was split evenly between the cropper and owner. In contrast, share tenants or share renters, provided not only their labor and usually at least two-thirds of the fertilizer, but also the work stock, seed and feed, and tools. The owner provided the land, a house, fuel, and the remainder of the fertilizer. In such arrangements the owner received between one-fourth and one-third of the crop, typically tied to the amount of fertilizer provided, while the tenant received the remainder.



## RESEARCH METHODS AND FINDINGS

### Archaeological Field Methods and Findings

The initially proposed field techniques involved the placement of shovel tests at 100-foot intervals along the eastern edge of the tract, running west.

All soil would be screened through ¼-inch mesh, with each test numbered sequentially by transect. Each test would measure about 1 foot square and would normally be taken to a depth of at least 1.0 foot or until subsoil was encountered. All cultural remains would be collected, except for mortar and brick, which would be quantitatively noted in the field and discarded. Notes would be maintained for profiles at any sites encountered.

Should sites (defined by the presence of three or more artifacts from either surface survey or shovel tests within a 50 feet area) be identified, further tests would be used to obtain data on site boundaries, artifact quantity and diversity, site integrity, and temporal affiliation. These tests would be placed at 25 to 50 feet intervals in a simple cruciform pattern until two consecutive negative shovel tests were encountered. The information required for completion of South Carolina Institute of Archaeology and Anthropology site forms would be collected and photographs would be taken, if warranted in the opinion of the field investigators. Sites which appeared to be eligible or potentially eligible for inclusion on the National Register of Historic Places would be recorded using a Garmin GPS 76 rover which tracks up to twelve satellites.

A total of 24 shovel tests were excavated within the

substation lot. The soil resembled Gills silt loam. This soil type has a 6 to 10% slope in the project area which generally forms on ridge side slopes (Rogers 1973:25). These soils are somewhat poorly drained with an A1 horizon of dark grayish brown (10YR4/2) silt loam to a depth of 0.1 foot over a pale yellow (2.5Y7/4) silt loam to 1.0 foot in depth.

Most of the shovel tests produced water from 0.7 to 1.0 feet below the surface which made it unlikely remains would be found.

Sites would be evaluated for further work based on the eligibility criteria for the National Register of Historic Places. Chicora Foundation only provides an opinion of National Register eligibility and the final determination is made by the lead agency in consultation with the State Historic Preservation Officer at the South Carolina Department of Archives and History.

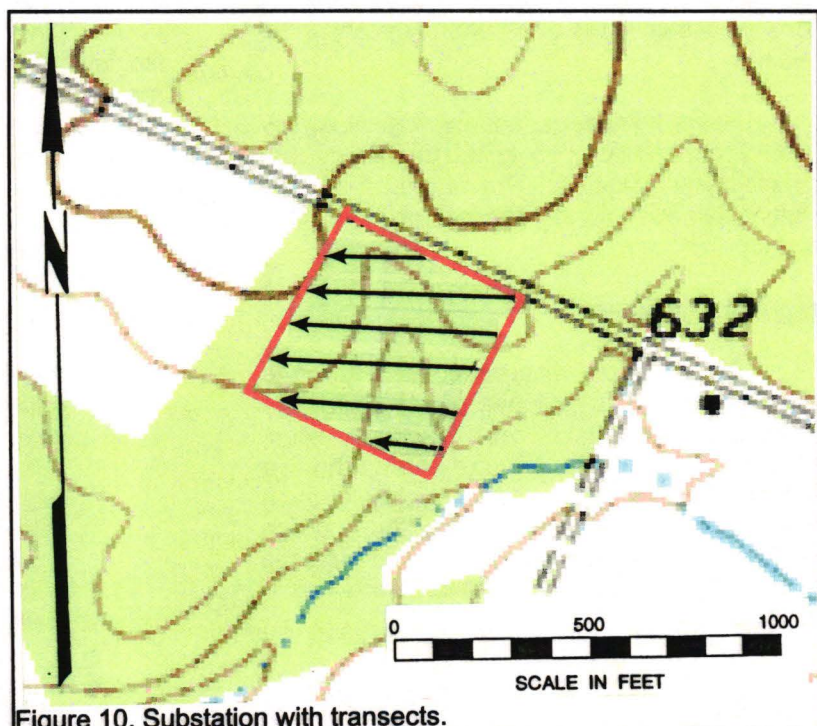


Figure 10. Substation with transects.





Figure 11. View of the rear portion of the survey tract.

Analysis of collections would follow professionally accepted standards with a level of intensity suitable to the quantity and quality of the remains.

Nevertheless, the archaeological survey of the 2 acre substation failed to identify any archaeological remains. This is most likely the result of low, wet soils and the lack of any distinct ridge top.

#### **Architectural Survey**

As previously discussed, we elected to use a 0.5 mile area of potential effect (APE). The architectural survey would record buildings, sites, structures, and objects which appeared to have been constructed before 1950. Typical of such projects, this survey recorded only those which have retained "some measure of its historic integrity" (Vivian n.d.:5) and which were visible from public roads.

For each identified resource we would complete a Statewide Survey Site Form and at

least two representative photographs were taken. Permanent control numbers would be assigned by the Survey Staff of the S.C. Department of Archives and History at the conclusion of the study. The Site Forms for the resources identified during this study would be submitted to the S.C. Department of Archives and History.

#### **Site Evaluation and Findings**

Archaeological sites would be evaluated for further

work based on the eligibility criteria for the National Register of Historic Places. Chicora Foundation only provides an opinion of National Register eligibility and the final determination is made by the lead federal agency, in consultation with the State Historic Preservation Officer at the South Carolina Department of Archives and History.

The criteria for eligibility to the National Register of Historic Places is described by 36CFR60.4, which states:

the quality of significance in American history, architecture, archaeology, engineering, and culture is present in districts, sites, buildings, structures, and objects that possess integrity of location, design, setting, materials, workmanship, feeling, and association, and

a. that are associated with events that have made a



significant contribution to the broad patterns of our history; or

b. that are associated with the lives of persons significant in our past; or

c. that embody the distinctive characteristics of a type, period, or method of construction or that represent the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction; or

d. that have yielded, or may be likely to yield, information important in prehistory or history.

*National Register Bulletin 36* (Townsend et al. 1993) provides an evaluative process that contains five steps for forming a clearly defined explicit rationale for either the site's eligibility or lack of eligibility. Briefly, these steps are:

- identification of the site's data sets or categories of archaeological information such as ceramics, lithics, subsistence remains, architectural remains, or sub-surface features;

- identification of the historic context applicable to the site, providing a framework for the evaluative process;

- identification of the important research questions the site might be able to address, given the data sets and the context;

- evaluation of the site's archaeological integrity to ensure that the data sets were sufficiently well preserved to address the research questions; and

- identification of important research questions among all of those which might be asked and answered at the site.

This approach, of course, has been developed for use documenting eligibility of sites being actually nominated to the National Register of Historic Places where the evaluative process must stand alone, with relatively little reference to other documentation and where typically only one site is being considered. As a result, some aspects of the evaluative process have been summarized, but we have tried to focus on an archaeological site's ability to address significant research topics within the context of its available data sets.

For architectural sites the evaluative process was somewhat different. Given the relatively limited architectural data available for most of the properties, we focus on evaluating these sites using National Register Criterion C, looking at the site's "distinctive characteristics." Key to this concept is the issue of integrity. This means that the property needs to have retained, essentially intact, its physical identity from the historic period.

Particular attention would be given to the integrity of design, workmanship, and materials. Design includes the organization of space, proportion, scale, technology, ornamentation, and materials. As *National Register Bulletin 36* observes, "Recognizability of a property, or the ability of a property to convey its significance, depends largely upon the degree to which the design of the property is intact" (Townsend et al. 1993:18). Workmanship is evidence of the artisan's labor and skill and can apply to either the entire property or to specific features of the property. Finally, materials — the physical items used on and in the property — are "of paramount importance under Criterion C" (Townsend et al. 1993:19). Integrity here is reflected by maintenance of the original material and avoidance of replacement materials.

The survey failed to identify any structures that were visible from the survey area that would be eligible for the National Register of Historic





Figure 12. View of 11.018.

the architectural uniqueness to be considered for the National Register. Site 11.018 cannot be seen from the survey area, so it will not be affected by the substation. We concur with the original not eligible recommendation.

Structure 11.019 (Figure 13) is a ca. 1920 house with a cross gable roof and interior and exterior chimneys. Similar to the previous structure, Schneider (1986) recommended 11.019 not eligible for the National Register due to its condition and the addition of modern assets such as

Places. Within the 0.5 mile APE there are no structures with the integrity to be eligible for the National Register of Historic Places. Photographs were taken of the three previously noted structures (see Schneider 1986).

Structure 11.018 (Figure 12) is a ca. 1910 "L" shaped house. The house has a cross gable roof and corbeled chimney. Two cattle barns are also associated with the structure. Schneider (1986) originally recommended the house not eligible due to the addition of aluminum siding and brick infill. In addition, this house lacks



Figure 13. View of site 11.019.

aluminum storm windows and brick foundation fill. We concur with the original recommendation of not eligible for the National Register. The house does not contain the integrity to warrant a nomination. However, site 11.019 will not be affected by the substation due to the distance from the project area.

Structure 11.020 was a ca. 1915 house that was originally recommended not eligible for the National Register (Schneider 1986). The house is no longer standing.





## CONCLUSIONS

This study involved the examination of 2 acre parcel of land intended for the construction of an electric substation. The project area is located in the central portion of Lancaster County. This work, conducted for the Lynches River Electric Cooperative, examined archaeological sites and cultural resources found on the proposed project area and is intended to assist the company in complying with their historic preservation responsibilities.

As a result of this investigation no archaeological sites were uncovered. This is most likely due to the low, wet soils and the lack of any distinct ridge top.

A survey of historic sites was conducted within a 0.5 mile APE. No structures were found warrant a National Register of Historic Places nomination. The two previously identified standing structures, 11.018 and 11.019 were photographed

but are still recommended not eligible. The substation will not directly affect any structures, modern or historic.

It is possible that archaeological remains may be encountered during construction activities. As always, contractors should be advised to report any discoveries of concentrations of artifacts (such as bottles, ceramics, or projectile points) or brick rubble to the project engineer, who should in turn report the material to the State Historic Preservation Office, or Chicora Foundation (the process of dealing with late discoveries is discussed in 36CFR800.13(b)(3)). No further land altering activities should take place in the vicinity of these discoveries until they have been examined by an archaeologist and, if necessary, have been processed according to 36CFR800.13(b)(3).



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